

# Product Information Sheet



## Fiberfrax® Durablanket® SMB

### DESCRIPTION

The primary use of this material is in consumable steel industry applications where handling strength and durability are important. Durablanket SMB is a cost-effective ceramic fiber blanket product consisting of refractory ceramic fibers which are processed in a manner to optimize handling strength.

It is designed to provide dimensional stability at high temperatures while being lightweight, thermally efficient, and resistant to thermal shock. Being entirely inorganic, it will not generate fumes when in use to ensure it is safe for not only to end-users but also to installers.

### GENERAL CHARACTERISTICS

Durablanket SMB have the following outstanding characteristics:

- Good handling strength
- Completely inorganic
- Resistance to thermal shock
- Light weight
- Low heat storage
- Good corrosion resistance
- Good thermal stability

### TYPICAL APPLICATIONS

- Heat Shields
- High Temperature Gaskets and Seals
- Hot Metal Transfer Applications
- Refractory Back-Up Insulation
- General Foundry Maintenance

### HEALTH AND SAFETY INFORMATION

<https://alkegen.com/safety-data-sheets/north-america-english/>

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### TYPICAL PRODUCT PARAMETERS

| Fiberfrax Durablanket SMB            |             |
|--------------------------------------|-------------|
| Physical Properties                  |             |
| Color                                | White       |
| Classification Temperature* °F (°C)  | 2300 (1260) |
| Continuous Use Temperature** °F (°C) | 2000 (1093) |
| Melting Point °F (°C)                | 3200 (1760) |

| Typical Chemical Analysis (wt. %) |             |
|-----------------------------------|-------------|
| SiO <sub>2</sub>                  | 52.0 - 57.0 |
| Al <sub>2</sub> O <sub>3</sub>    | 29.0 - 47.0 |
| Other Oxides                      | 1.0 - 14.0  |

| Minimum Tensile Strength                         |        |         |
|--------------------------------------------------|--------|---------|
| Density, lb/ft <sup>3</sup> (kg/m <sup>3</sup> ) | 6 (96) | 8 (128) |
| Tensile Strength, psi (kPa)                      | 4 (28) | 5 (35)  |

\*The Classification Temperature is not a definition of the operational temperature use limit of these products, especially when long-term physical or dimensional stability is a factor. The classification temperature is the temperature at which irreversible linear shrinkage does not exceed a given value after a 24-hour heat soak test. For applications where long-term stability is not a requirement, products may be successfully used at temperatures well in excess of their Classification Temperature. For continuous use applications requiring long-term stability, routine practice is to utilize materials in respect to their continuous use temperature.

\*\*The Continuous Use Temperature is a recommended maximum operating temperature for the material usage under clean, oxidizing atmosphere conditions. For certain application conditions (specific chemical contaminants, reducing atmospheres, etc.), the Continuous Use Temperature may be reduced. Data are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes. For assistance or further clarification, please contact your nearest Alkegen Application Engineering office.

**Alkegen**  
**Headquarters**  
5215 N. O'Connor Blvd, Suite 2300  
Irving, TX 75039  
Telephone: 716-768-6500  
Website: [www.alkegen.com](http://www.alkegen.com)  
Email: [info@alkegen.com](mailto:info@alkegen.com)

